Amphibious Ships, Craft, and Vehicles

Ops 066

Learning Objectives

Mission and Characteristics of:

- **Amphibious Ships**
- **Landing Craft**
- **Amphibious Vehicles**

LCC Amphibious Command Ship

Mission: ***C2*** Command and Control

Characteristics:

Length: 620 ft
Beam: 108 ft
Displ.: 18,500 tons
Speed: 21 kts
Helo Cap: 1 helo spot
Well Deck: None

Staff:

CATF: 125 officers
126 enlisted
CLF: 56 officers
153 enlisted
Troops: 250
3 LCPLs

LCC Amphibious Command Ship

Helo Spot

LCPLs

LHA Amphibious Assault Ship (General Purpose)

Mission: *Multi-purpose, assault via helo,landing craft, & amphibious vehicle.*

Characteristics:

Length: 820 ft
Beam: 106 ft
Displ.: 39,300 tons
Speed: 24 kts
Crew: 65 officers
950 enlisted

Notional Aircraft Load:

12 - CH-46
4 - CH-53
6 - AV-8B
4 - AH-1
3 - UH-1
2 - HH-46
9 - spots
2 - elevators

LHA Amphibious Assault Ship (General Purpose)

Well Deck:

LCAC - 1 / 0

LCU - 2 / 4

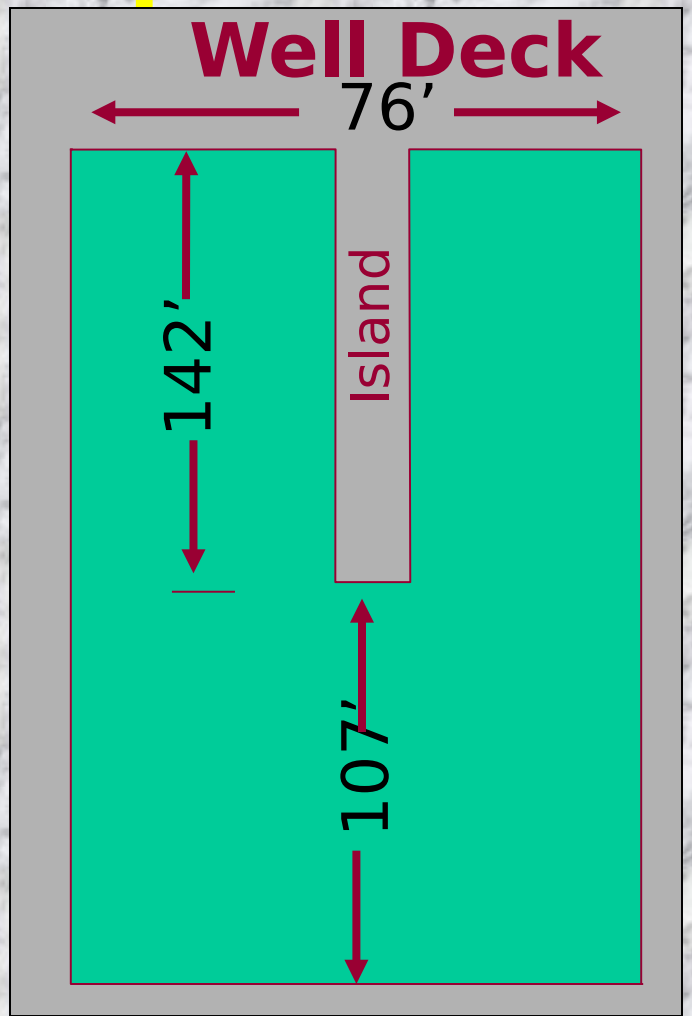
Cargo & Medical

Vehicle - 28,700 sq ft

Cargo - 141,200 cu ft

Troops - 1,900

Beds - 300



LHA Amphibious Assault Ship (General Purpose)

Well Deck:

LCAC - 1 / 0

LCU - 2 / 4

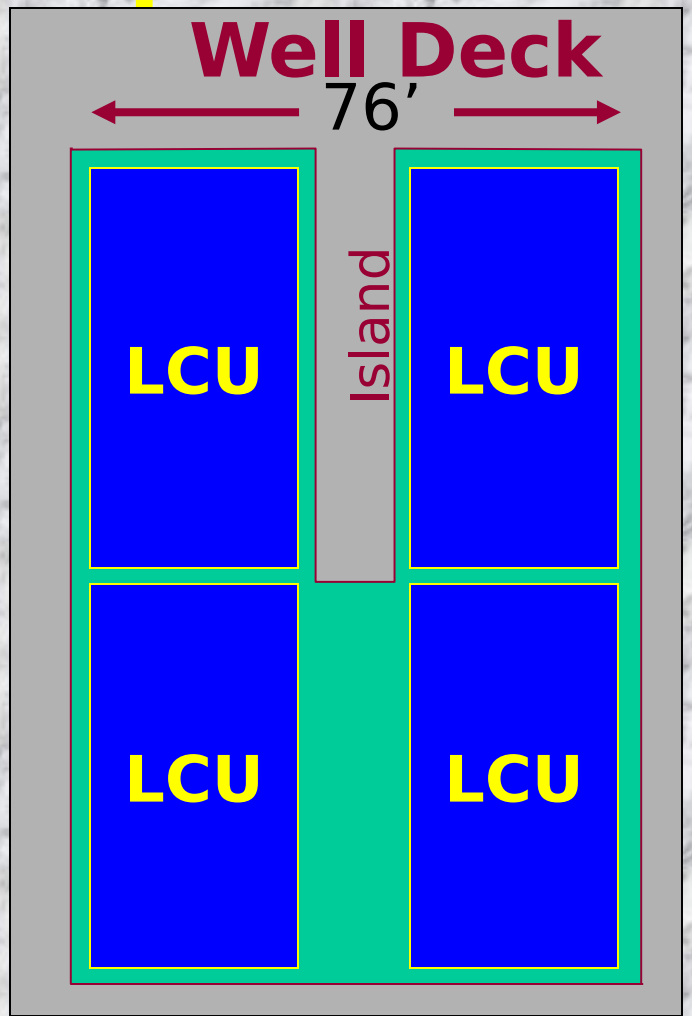
Cargo & Medical

Vehicle - 28,700 sq ft

Cargo - 141,200 cu ft

Troops - 1,900

Beds - 300



LHA Amphibious Assault Ship (General Purpose)

Well Deck:

LCAC - 1 / 0

LCU - 2 / 4

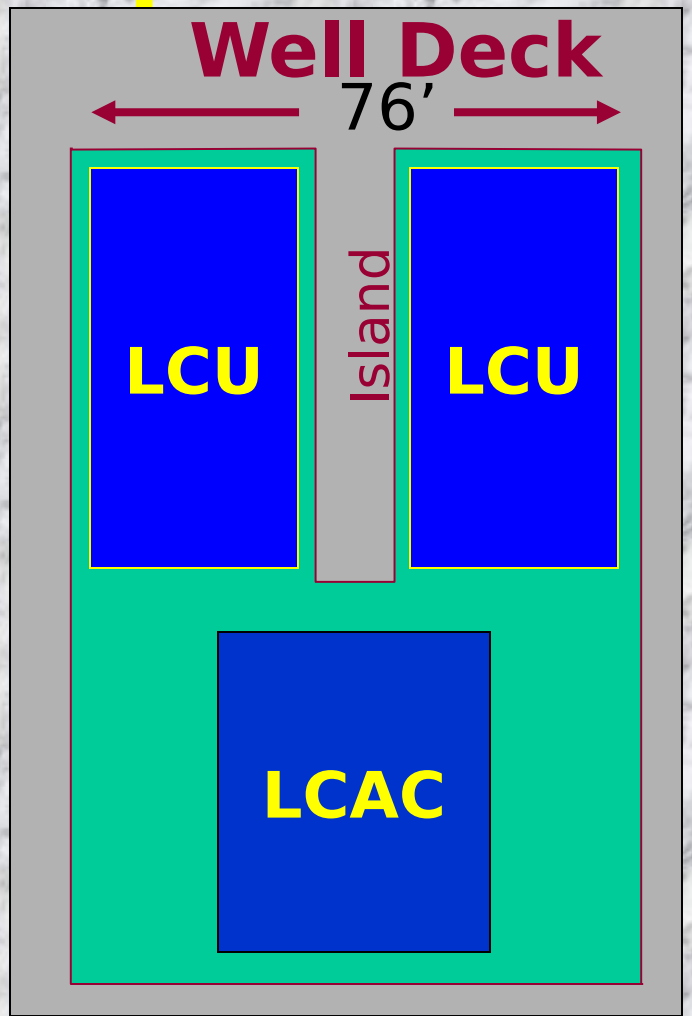
Cargo & Medical

Vehicle - 28,700 sq ft

Cargo - 141,200 cu ft

Troops - 1,900

Beds - 300



LHA Amphibious Assault Ship (General Purpose)

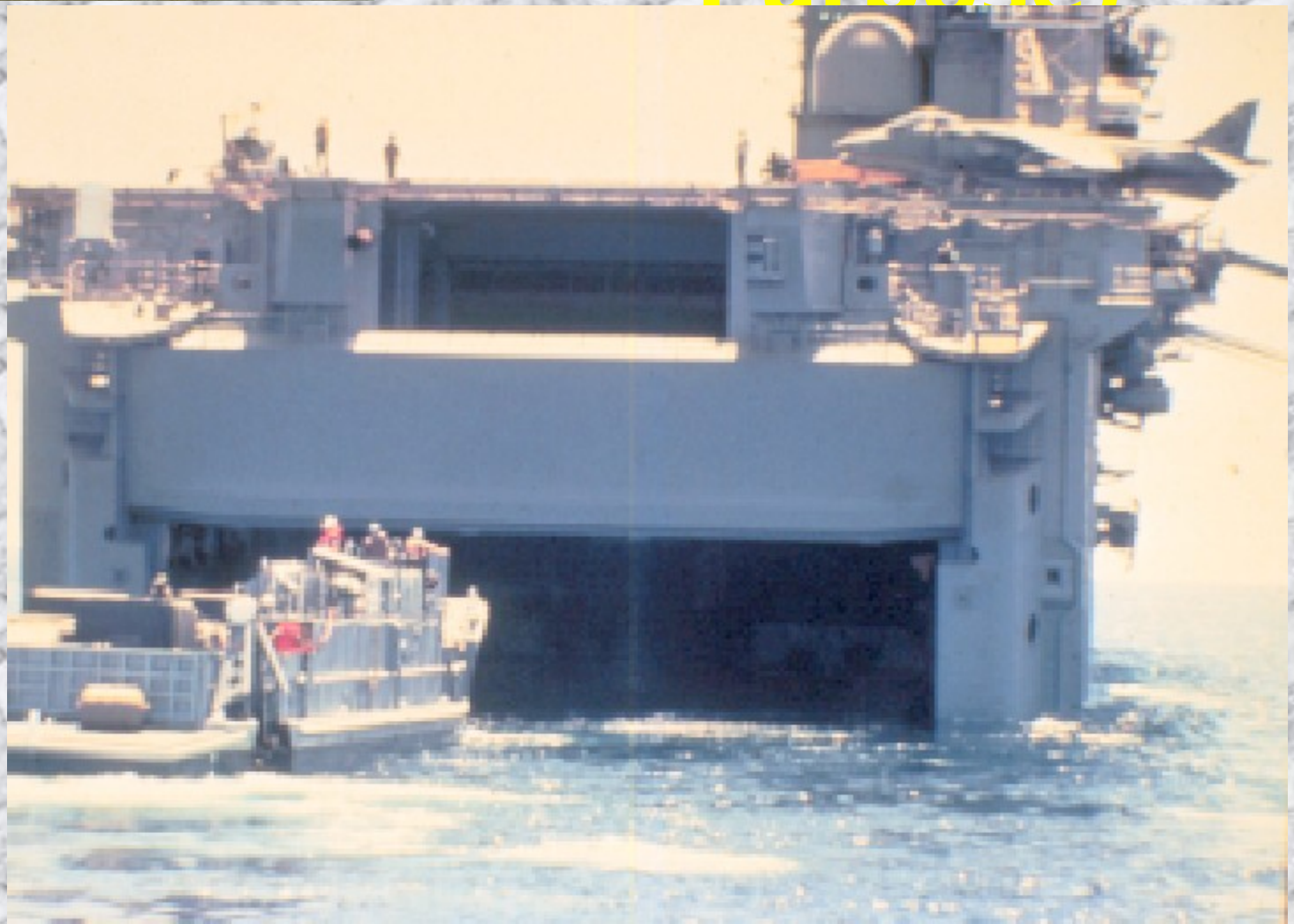
5” Guns (Removed)

LHA Amphibious Assault Ship (General Purpose)

LHA Amphibious Assault Ship (General Purpose)

LHA
Amphibious Assault Ship (General Purpose)

LHA Amphibious Assault Ship (General Purpose)



LHD
Amphibious Assault Ship (Multi-Purpose)

Mission: *Multi-purpose, assault via helo,landing craft, & amphibious vehicle.*

Characteristics:

Length: 844 ft
Beam: 106 ft
Displ.: 40,500 tons
Speed: 24 kts
Crew: 65 officers
1,100 enlisted

Notional Aircraft Load:

12 - CH-46
4 - CH-53
6 - AV-8B
4 - AH-1
3 - UH-1
2 - HH-46
9 - spots
2 - elevators

LHD
Amphibious Assault Ship (Multi-Purpose)

Well Deck:

LCAC - 3 / 0

LCU - 0 / 2

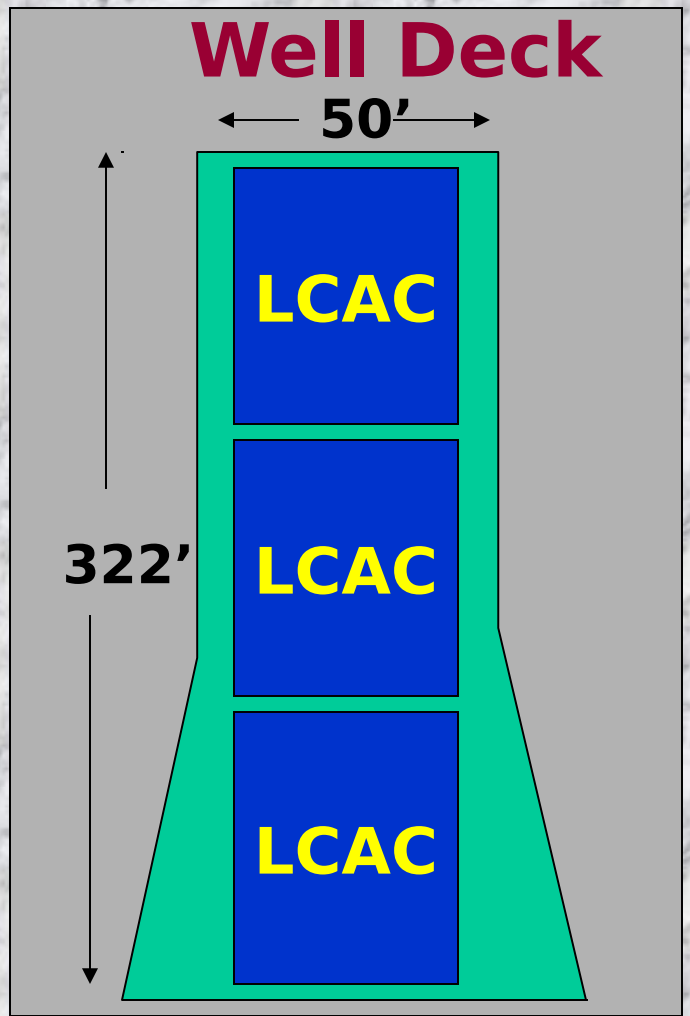
Cargo & Medical

Vehicle - 25,500 sq ft

Cargo - 166,600 cu ft

Troops - 1,900

Beds - 600



LHD
Amphibious Assault Ship (Multi-Purpose)

Well Deck:

LCAC - 3 / 0

LCU - 0 / 2

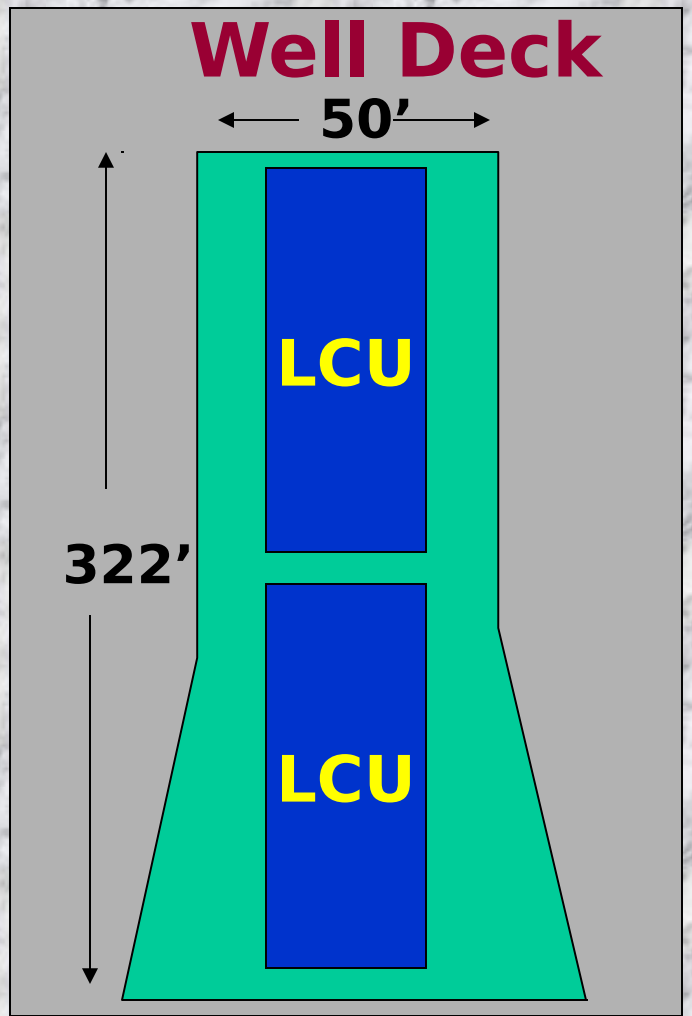
Cargo & Medical

Vehicle - 25,500 sq ft

Cargo - 166,600 cu ft

Troops - 1,900

Beds - 600



LHD
Amphibious Assault Ship (Multi-Purpose)

LHD
Amphibious Assault Ship (Multi-Purpose)

LHD vs. LHA
DIFFERENCES

* increased length
* redesign of well deck
* aircraft elevator movement
* improved, relocated C2 space
* reduced superstructure silho
* removal of 5 inch guns
* removal of Flag Bridge
* redesign of stern gate

LPD
Amphibious Transport Dock Ship

Mission: *Transport troops & equipment, land via landing craft, amphibious vehicles, or helo.*

Characteristics:

Cargo and Well Deck:

Length:	570 ft	Cargo:	51,100 cu ft
Beam:	84 ft	Vehicle:	14,000 sq ft
Displ.:	16,900 tons		
Speed:	21 kts	LCU:	1 / 0
Crew::	420	LCAC:	0 / 1
Air Hangar		AAV:	or 45 AAV
2 spots		Troops:	900

LPD
Amphibious Transport Dock Ship

LPD
Amphibious Transport Dock Ship

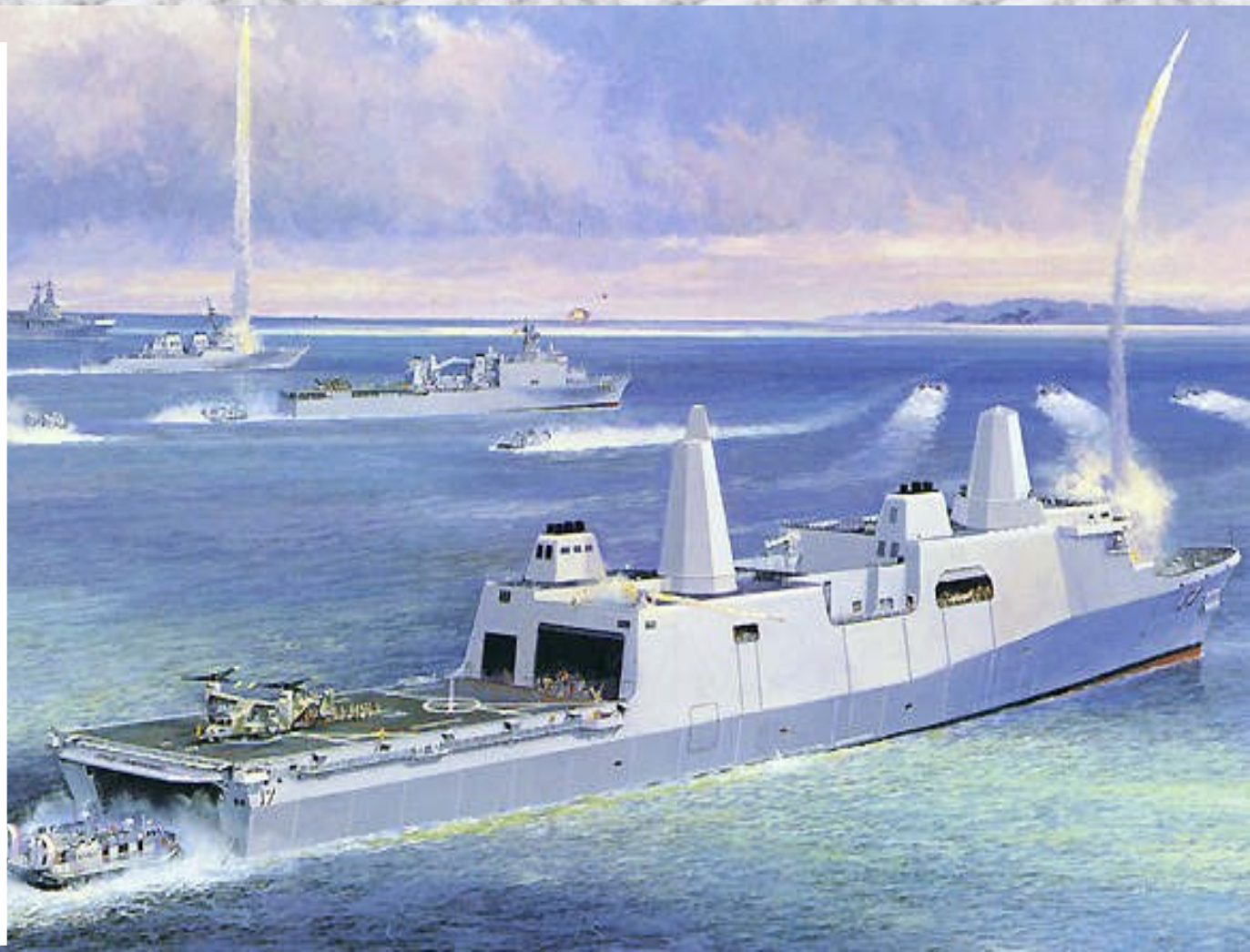
LPD 17 San Antonio Class
The Future in FY2003

682’ length
105’ beam

2 LCACs in well deck

Operate **MV-22 Osprey**, as well as CH-53, UH-1, AH-1, CH-46

Crew: 465
Troops: 720



MV-22 OSPREY

- replace aging CH-46s and CH-53D for USMC
- tilt-rotor, vertical take-off-and-landing
- delivery to fleet in FY02

LSD-36
Dock Landing Ship

Mission: *Transport & launch loaded landing craft, & amphibious vehicles. Provide limited docking repair services.*

Characteristics:

Length: 555 ft
Beam: 84 ft
Displ.: 13,700 tons
Speed: 22 kts
Crew:: 426
Air 1 spot
Troops: 330

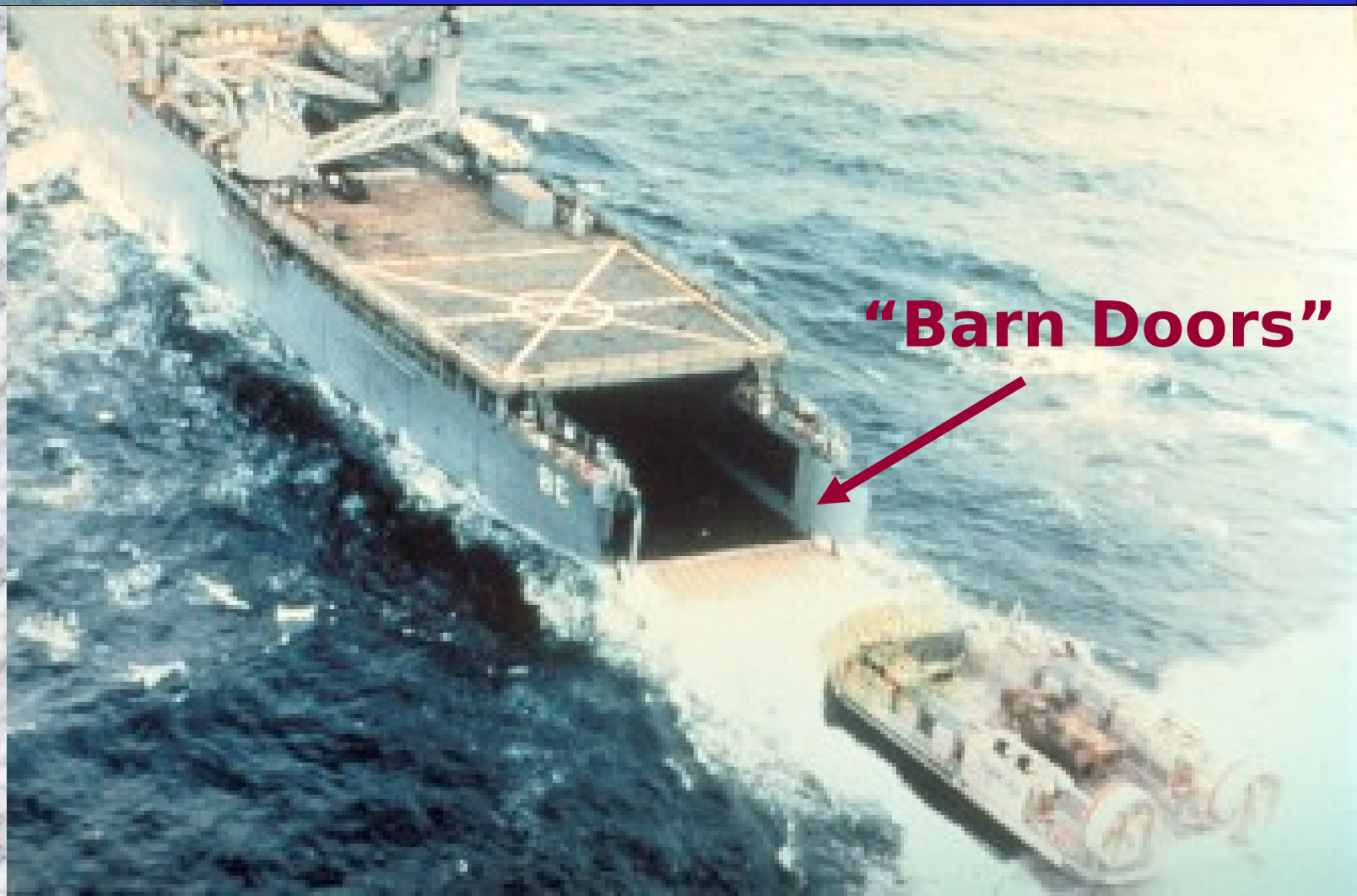
Cargo and Well Deck:

Cargo: 1,800 cu ft
Vehicle: 19,700 sq ft
(8,800 sq ft w/o)

LCU: 0 / 3(1)
LCAC:3(2)/ 0
AAV: or 47 AAV

LSD-36
Dock Landing Ship

LSD-36
Dock Landing Ship



LSD-41/(49) Dock Landing Ship

Mission: *Transport & launch loaded landing craft, & amphibious vehicles. Provide limited docking repair services.*

Characteristics:

Deck:

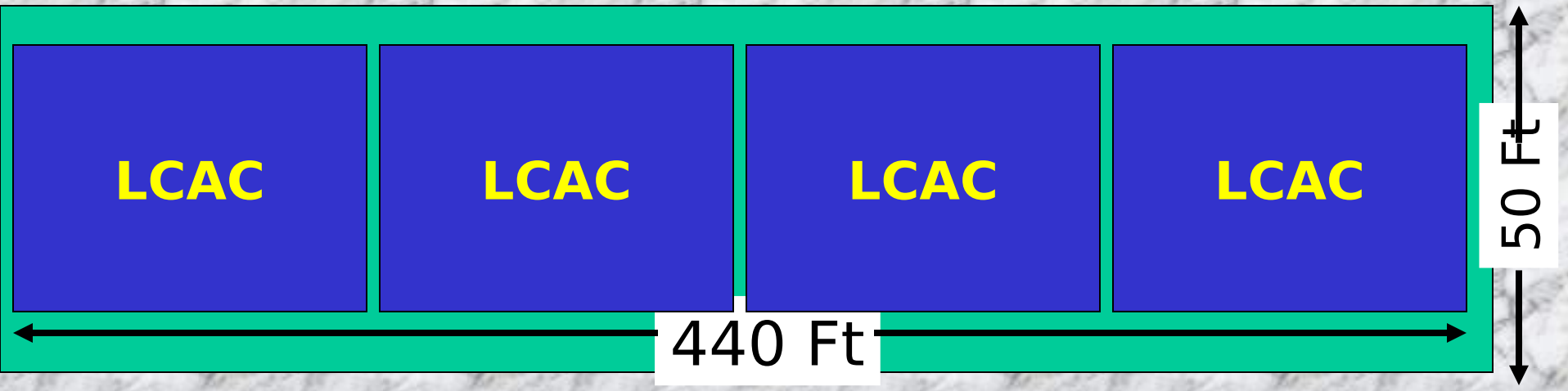
Length:	609 ft
Beam:	84 ft
Displ.:	16,900 tons
Speed:	22 kts
Crew::	413
Air:	2 spots
Troops:	440

Cargo and Well

Cargo:	8,970 / (67,600) cu ft
Vehicle:	11,800 / (20,200) sq ft
LCU:	3(1) / 0
LCAC:	0 / 4(2)
AAV:	or 64 AAV

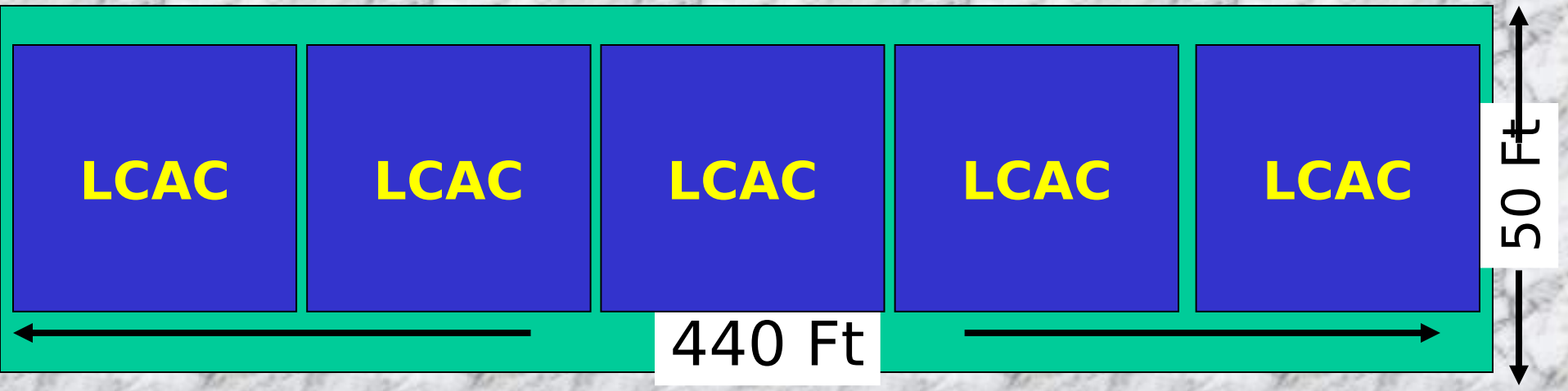
LSD-41/(49)
Dock Landing Ship

Well Deck LSD-41
(LCAC ramps down)



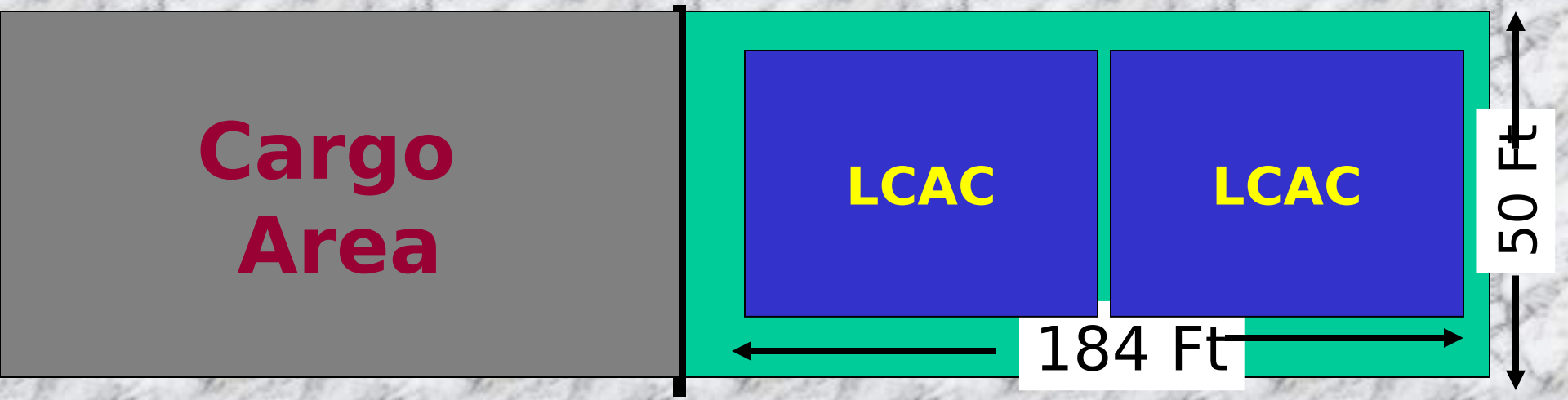
LSD-41/(49)
Dock Landing Ship

Well Deck LSD-41
(LCAC ramps up)



LSD-41/(49)
Dock Landing Ship

Well Deck
LSD-49



LSD-41/(49)
Dock Landing Ship

Landing Craft
&
Amphibious Vehicles

LCPL
Landing Craft, Personnel, Large

MISSION: Amphibious control work. Light salvage.

Speed: 19-25 kts

Length: 36 feet

Nav: Magnetic compass

Comms: 1 VHF (inst) 1 VHF (port.)

LCM-8
Landing Craft, Mechanized

MISSION: Transport heavy equipment and supplies from ship to shore

Speed: 8-10 kts

Cargo: 60 tons

150 troops

Ramp: Fwd

Endur: 11 hrs

Specs: 74 ’x 21’

LCM-8
Landing Craft, Mechanized

LCU and LCM-8s

LCU
Landing Craft, Utility

MISSION: Transport heavy equipment and supplies from ship to shore

Speed: 8-10 kts

Cargo: 180 tons

350 troops

Cap : Galley

Berthing

Ramps: Fwd, aft

Crew Day: 16

LCU
Landing Craft, Utility

LCU
Landing Craft, Utility

LCAC
Landing Craft, Air Cushion

MISSION: Over the horizon transport of heavy equipment, troops, and supplies from ship

Speed: 45+ kts

Cargo: 60 (75) tons

24 troops

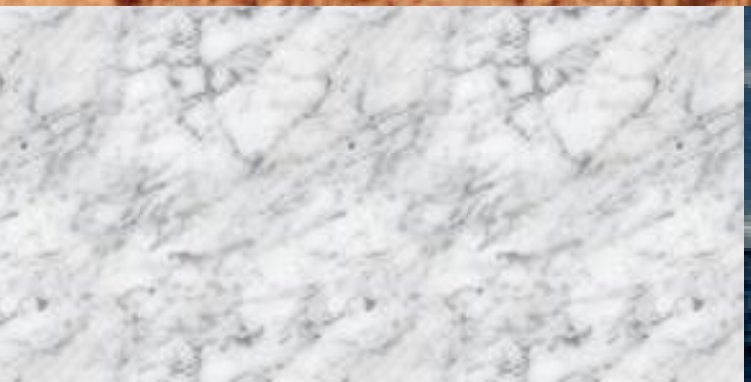
Cap.: 4 ft cushion

Ramps: Fwd, aft

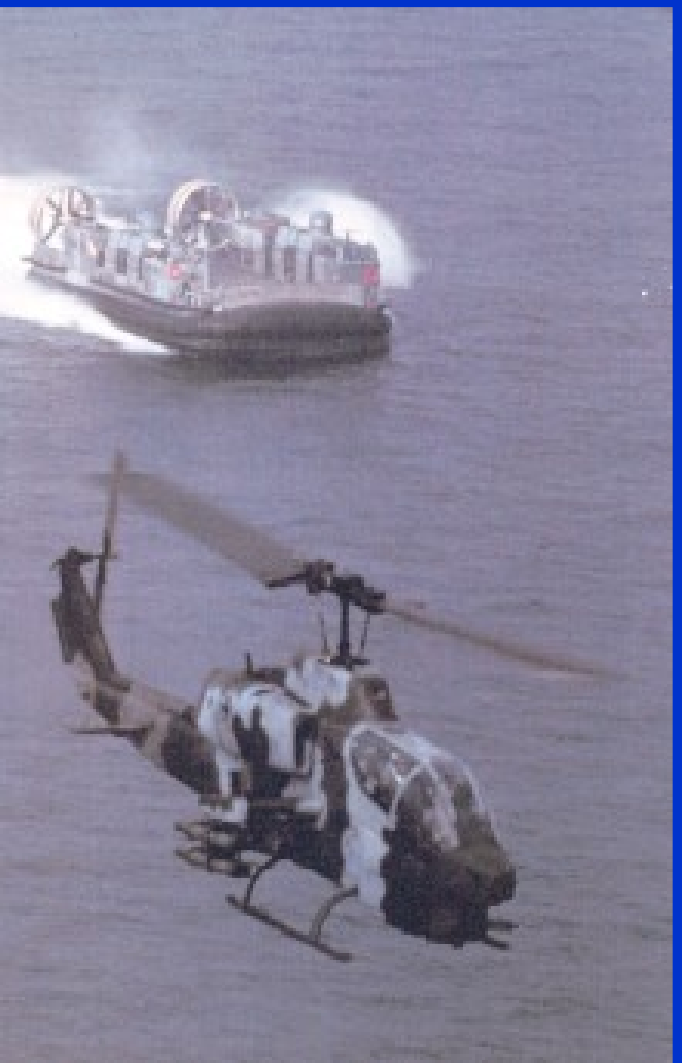
Endur: 4 hrs

Specs: 88 ’ x 47’

LCAC
Landing Craft, Air Cushion



LCAC
Landing Craft, Air Cushion



LARC V
Lighter Amphibious Re-supply Cargo

MISSION: Salvage. Suitable to transport beach party, supplies, and cargo from ship to shore.

Wt: 20,900 lbs

Range

Water: 40 mi

Land: 200 mi

Dim.: 10’ x 35’

Speed

Water: 9 kts

Land: 30

AAVP7 Amphibious Assault Vehicle Personnel

MISSION: Armored transport for landing forces from ship and across difficult beach and terrain.

Wt: 50,800 lbs

Range

Water: 7 hrs

Land: 300 mi

Cargo: 21 Troops or 10,000 lbs

Speed

Water: 6 kts

Land: 20-30 mph

AAVP7 Amphibious Assault Vehicle Personnel

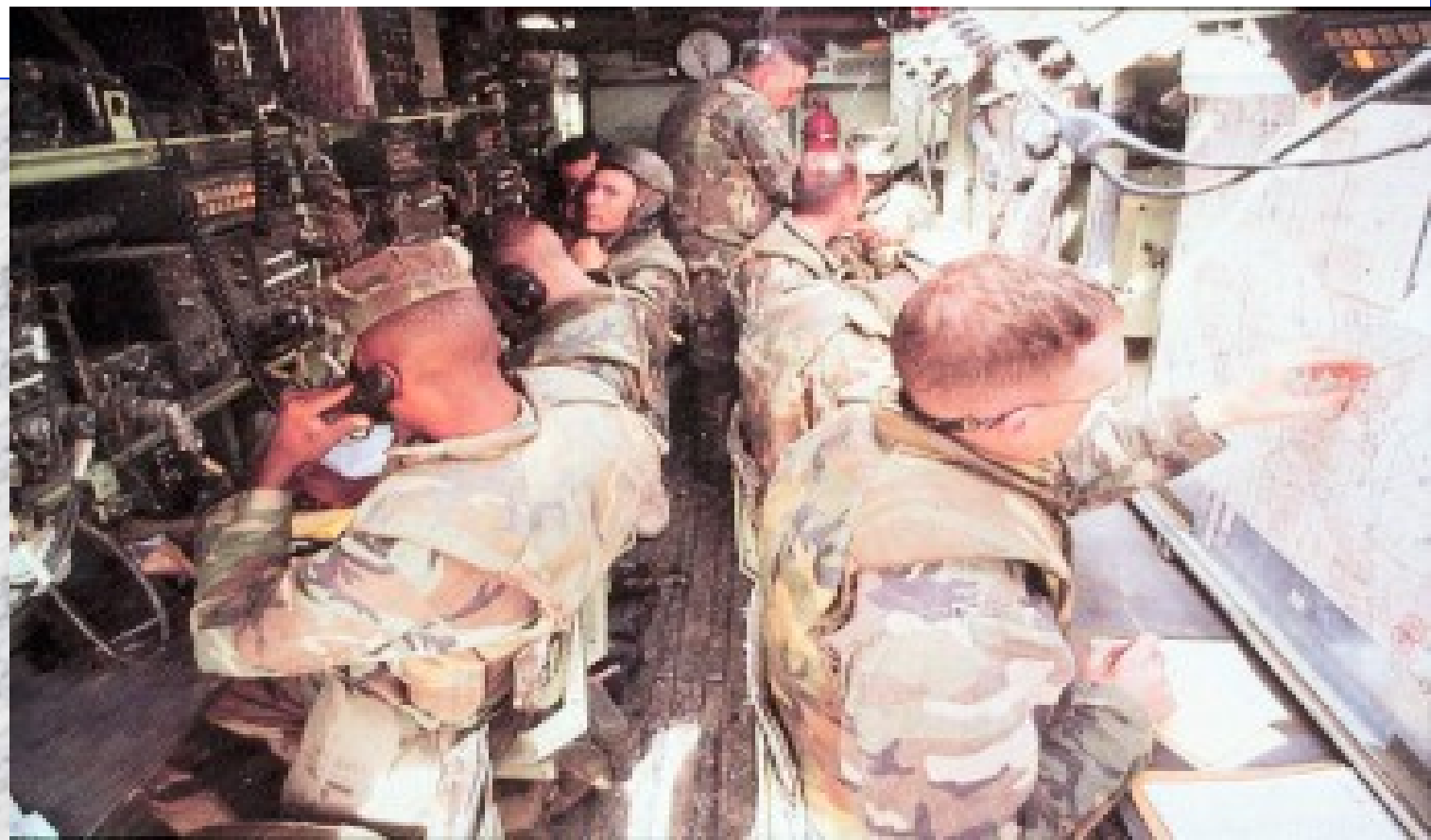
Launch at anchor or underway (up to15 kts)

AAVP7 Amphibious Assault Vehicle Personnel

AAVR7
Amphibious Assault Vehicle Recovery

AAVC7 Amphibious Assault Vehicle Command

MISSION: Mobile command post for communication with infantry, supporting arms and logistical support elements.



AAAV Advanced Amphibious Assault Vehicle

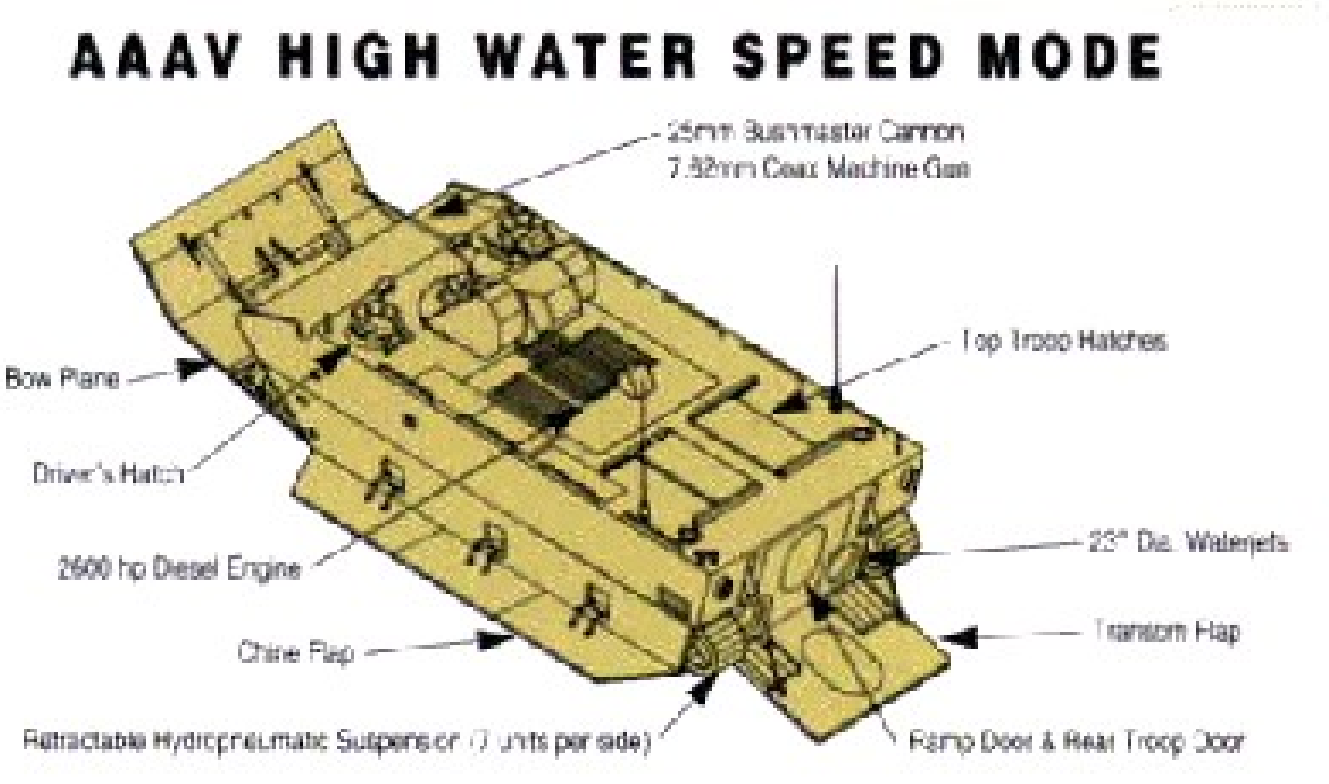
Delivery in FY06

* 18 combat loaded troops

* water: 20-25 kts for 65 miles

* land: 45 MPH for 400 miles

* hydroplane



Did you get all that?

Questions?